1	what is claimed is:
2	1. An ionization detector, comprising:
3	an ionization chamber configured to allow a sample fluid to flow through;
4	a first electrode;
5	a second electrode, the first and second electrodes capable of forming an electrical
6	field in the ionization chamber; and
7	an optical window configured to allow a radiation beam to enter the ionization
8	chamber, wherein a direction of propagation of the radiation beam in the ionization chamber is
9	co-linear to a direction of flow of the sample fluid in the ionization chamber.
10	
11	2. The ionization detector according to claim 1, further comprising a laser, wherein the
12	radiation beam is a laser beam produced by the laser.
13	
14	3. The ionization detector according to claim 2, wherein at least a portion of the first
15	electrode forms a first area of an interior surface of the ionization chamber, and at least a portion
16	of the second electrode forms a second area of the interior surface of the ionization chamber.
17	
18	4. The ionization detector according to claim 3, wherein the sample fluid comprises
19	gases.
20	
21	5. A method for ionizing a sample fluid in an ionization chamber, comprising:
22	generating an electrical field in the ionization chamber;
23	directing a radiation beam into the ionization chamber such that a direction of
24	propagation of the radiation beam in the ionization chamber is co-linear to a direction of flow of
25	the sample fluid in the ionization chamber.